

SDMS DocID

2074861



August 15, 2006

Refer to ACC: KMH 06-1416

7005 1820 0001 4015 3250 VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Mr. Harry R. Steinmetz (3HS62) U.S. Environmental Protection Agency, Region III 1650 Arch Street Philadelphia, PA 19103-2029

Re: Supplemental Response to CERCLA Section 104(e) Information Request for Safety Light Corporation Site, Bloomsburg, Pennsylvania

Dear Mr. Steinmetz:

Protection ("CBP") to the above-referenced Information Request regarding its former aboratory located in Baltimore, Maryland ("CUSTOMS LAB"). Recently, CBP has learned of records that might be responsive to Questions 6 and 8 of your Information Request, which are enclosed as attachments 1-9 for your convenience. We note that the documents attached are copies of documents originating with the Nuclear Regulatory Commission (formerly the Atomic Energy Commission) and CBP has no way to verify the accuracy of the information therein. CBP learned of this information by visiting "nrc.gov" and searching the "Reading Room" section, known as "ADAMS." Our previously submitted written response to the above-referenced Information Request remains the same. Please contact Kristopher Huelsman, an attorney on my staff, at (317) 614-4424, should you have any questions concerning this response.

Sincerely

Assistant Chief Counsel

cc: Humane Zia (w/encl.)
Christopher Oh (w/encl.)
Ira Reese (w/encl.)
Luke McCormick (w/ encl.)

Lar: In 1886 (19-8654-1)

U. S. Reportment of the Transury U. S. Guetoms Laboratory 103 South Cay Street Baltimore R. Maryland

1 6

Attention: Mr. Melvin Lerner

Contlemen:

Transmitted herewith is Byproduct Material License No. 19-8634-1 issued in response to your application dated July 11, 1962.

You will notice that we have specified the ges chromatographic cell Nodels as 31-25 or 31-150 on the basis of information supplied by Electronic Instruments for Received, Inc. If these are not the cell models which you desire to produce, it will be necessary for you to apply for amendment of this license, supported by detailed information regarding the design and construction of the cells desired.

Your attention is directed to fection 20.203, 10 OFR 20, regarding the labeling required for the gas chromatographic dells and devices containing byproduct material. Specifically, we note that the label must contain information as to the idetaps and quantity present in the cell and/or device.

NYOO COMPLIANCE DIVISION

Robert H. Brinkman Lentwood Budnich Biviolog of Licensing and Janualetion

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i. Lia, \$19-8656-1 1. 10 GFR, Parto 20 4 30

3. Form ARG-313, w/imety.

bos: Compliance (Region I)

LGR: IB

LAR: IB

Gool/lam

Brinkman

7/25/62

7/ /62



TREASURY DEPARTMENT

BUREAU OF CUSTOMS

BALTIMORE, MD.



REFER TO

Mr. Cecil Buchanan Isotopes Branch Division of Materials Licensing United States Atomic Energy Commission Washington 21, D.C.

Dear Sir:

Request is made for an amendment to our current license 19-8654-1 (G-66) to possess a narrow band X-ray gold detector containing 100 millicuries of Xe-133 gas hermetically sealed into a stainless steel capsule. The capsule was tested for leakage at the time of manufacture and again before shipment -- a time interval of approximately 1 month to verify the fact the source was sealed.

This unit is a prototype device designed by TRACERLAB under contract from the Department of Isotope Development for evaluation by the U.S. Customs Laboratory. George Rotario of the Miotope Development Group is the project monitor.

The device is appropriately labeled with radioactive caution sign stating the quantity, isotope and date of measurement.

Radiation levels measured at the surface of the instrument when it contained 100 millicuries of Xe-133 were negligible. Radiation level measurements made at the source end at the most accessible area did not exceed 40 mr/l hour. This represents the condition under which the instrument is actually operated - one foot away from the source end. The radiation level is less than 4 mr/l hour. With the protective shield supplied with the instrument in place over the source the radiation level is negligible.

In actual operation this shield is removed. As the Xe-133 decays, additional thin lead absorbers are removed to maintain proper operating level.

Full operating instructions are supplied with the instrument by TRACERLAB and are enclosed herewith.

Thank you for your prompt attention.

Sincerely yours,

Melvin Lerner Chief Chemist

Enclosure

ATOMIC ENERGY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Budget Bureou No. 38-R027.4.

INSTRUCTIONS.—Complete Items 1 through 16 if this is an initial application. If application is for renewal of a license, complete only Items 1 through 7 and indicate new information or changes in the program as requested in Items 8 through 15. Use supplemental sheets where necessary, Item 16 must be completed on all applications. Mail three copies to: U. S. Atomic Energy Commission, Washington 25, D. C. Attention: Isotopes Branch, Division of Licensing and Regulation. Upon approval of this application, the applicant will receive an AEC Byproduct Material License: An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30 and the Licensee is subject to after 10, Code of Federal Regulations, Part 20.

1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital,

(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (IF

Customs Laboratory 105 s. day street + Room 704 Ballimore, MG. 31202

his Tani Proof Attachetone Lab. 103 S. Gay Street - Room 704 Baltimore, No. 21202

3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.)

19-8654-1 (6 56)

4. INDIVIDUE USER(S). (Name and title of individual(s) who will use or directly supervise of byproduct material. Give training and experience in Items 8 and

5. RADIATION PROTECTION OFFICER (Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experience as in Hems 8 and 9.)

Molvin Lerner

plvin Lerner, Chief Chemist

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6. (a) BYPRO UCT MATERIAL. (Elements mber of each.)

(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYS-ICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.)

Menon-133 gaseous form - 100 milliguries scaled in stainless steel capsule.

7. DESCRIBE PROSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for "human use," supplement A (form AEC-313a) must be completed in listed this item. If byproduct material is in the farm of a sealed source, include the make and model number of the storage container and/or device in pleted in field this item. If byproduct mate which the same will be stored and/or used.)

ed as activating source in narrow band X-was gold detector.

05102

Form AEG-313 (5-58)						rage Iwo
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8. TYPE OF TRAINING		WHERE T	RAINED	DURATION OF TRAINING	ON THE JOB (Circle onswer)	FORMAL COURSE (Circle answer)
a. Principles and practices of radiation protection		Gustoms	Laboratory	4 yrs.	Yes No	Yes No
b. Radioactivity measurement standardiza tion and monitoring techniques and in strument			Laboratory		(Yes) No	Yes No
c. Mathematics and calculations basic to the use and measurement of radioactivity.	e		Laborator	_	(Yes) No	Yes No
d. Biological effects of radiation			aboratory	4 yrs	Y (\$) No	Yes No
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INSTRUCTIONS FOR USE OF THE TRACERLAB NARROW BARD X-RAY COLD DETECTOR

- 1. Thurn instrument on by use of the On-Off switch.
- 2. With standard in sample postion, position range switch so that mater reading is on scale.
- 3. Adjust Tune fo. Max. control for maximum reading.
- 4. With/Sung and Pange Verbier controls full clockwise, the motor reading should be above half scale with Range Switch at 100 position. If it is not, remove a sufficient ember of lead source filters (see Half-Life compensation below) to make it so. The removal of one lead foil will increase the motor reading approximately 1.4 cimes.
- 5. The amount of gold on the surface of a sample may be compared to that on a mondard by normalizing the meter reading obtained from the standard. Mater readings from samples will then be directly in percentages. The meter readings may be normalized by setting the meter needle at full scale with the Range ventral to do this.
- of samples may be done as follows: With the Runge switch on the lowest position which allows on-scale readings with the sample holder in position, adjust the Z Supp control to not the meter at 20 or it the point where the andre oscillator requency starts to increase with increasing meter readings.

 Now, with the cample in the measuring position a sizable increase is consting rate is a good indication of the presence to of gold. It is the presence to of gold.

- 71 If the count rate increases only slightly it is possible that the mass of the object is causing increased scatter. This can be compensated for by substituting another article as much like the sample as possible, but without a gold content. The instrument should be set at 20 as previously discussed with the dummy sample, then the original one should be remeasured. An unambiguous increase in counting rate now is a good indication of the presence of gold.
- 8. After operation for 10 to 12 boars, or whom the meter needle table below 80% when either belteny test button is depressed, the subsument sacate be recharged for about to tours.

Hilf Life Compensation

- 1. Since the 5 day half life of Xe-133 would cause a rapid dimunition in source attempts without compensation, a method has been devised for this compensation. When new, the source is far stronger than needed, but this strength, or activity, is reduced by a number of thin lead foils placed in from of the source. These are removed one by one as the source diminishes in strength, with a probable frequency of two every five days. The following instructions describe the method for removing the lead foils.
- 2. Arounde the loud glass supplied with the instrument so you must look through it to see the source. Leave enough zoon to work on the source.
- 3. Take the truark plier and carefully remove the snapring on the front of the source. Be careful not to apply pressure to the lead feels under the ring.
- 4. With a sharp, pointed implement such as a sharp lead pencil, a dissecting needle or a scribe, carefully work up the edge of the outer foil at the open slot at one side of the source.
- 5. When you are sime that only one foll has been loosened, remove it with a pair of tweezers.
- 6. After the necessary number of foils have been removed, replace the snap ring, using the same care as in removal. The ring need not be trebt against the remaining foils, but may be as much is 1/16 luch away.
- 7. During this procedure, work carefully but do not waste time. The level of activity at the measuring plane is low 40 mr. per hour -- but unnecessary exposure of the hands is to be avoided.

REPLACEMENT OF SOURCE

- 1. When the source decays below the point of usefulness (meter reading below full scale on the <u>Range 10</u> position with the gold standard), a new source is required.
- 2. A replacement source from Tracerlab is shipped in its lead hat, or container, with a full complement of lead foils installed. It is not necessary to look at the face of the source, so the lead glass is not needed.
- 3. To replace the source, remove the bottom ring from the Detector by loosening the four allen-lead screws around the side. The ring may now be removed with the bottom shield in place. Be careful that the linging does not slide out of the Detector tubing.
- 4. Remove the three screws holding the lead hat in position. Remove the lead hat.
- 5. Remove the lead cover from the face of the new hat and place it in the same position occupied by the old one. Replace the three screws and tighten.
- 6. Place the lead cover over the face of the old hat and return it to Tracerlab.
- Replace the ring on the gold defector and tighten the four allem set screws.



TREASURY DEPARTMENT

BUREAU OF CUSTOMS

BALTIMORE, MD.



January 10, 1966

REFER TO

Mr. Cecil Buchanan
Isotopes Branch
Division of Materials Licensing
United States Atomic Energy Commission
Washington, D.C. 20545

Dear Sir:

Request is made for an amendment to our current license 19-8654-1 (G-66) permitting us to obtain one millicurie of Yr 90 and one millicurie of strontium 90.

These elements would be used in cooperation with Oak Ridge National Laboratory to determine their effectiveness as markers (in diluted form) in tracing suspected packages which are under Customs jurisdiction.

Sincerely yours,

Melvin Lerner Chief Chemist





UNITED STATES ATOMIC ENERGY COMMISSION

WASHINGTON, D.C. 20545

DML: IB: REB (19-8654-1)

April 8, 1966

U.S. Department of the Treasury

W.S. Customs Laboratory

103 E. Say Street

Baltimore, Maryland 21202

Attention: Mr. Melvin Lerner

Chief Chamist

SUBJECT: APPLICATION FOR BYPRODUCT MATERIAL LICENSE

DATED January 10, 1966. AND OUR REQUEST FOR INFORMATION DATED January 28, 1966

This concerns the subject application for a byproduct material license and our letter in which we notified you that the application was deficient and that certain additional information was required.

You are hereby notified that unless within thirty (30) days from the date of this notice we receive the additional information requested we will consider your application as having been abandoned by you. This action is without prejudice to the resubmission of an application.

Sincerely yours,

Richard E. Cunningham Chief, Isotopes Branch Division of Materials

Licensing



TREASURY DEPARTMENT

BALTIMORE, MD.



June 23, 1966

REFER TO

Mr. Richard E. Cunningham Chief, Isotopes Branch Division of Materials Licensing Atomic Energy Commission Washington, D.C. 20545

Dear Mr. Cunningham:

Enclosed is application for renewal of Byproduct Material (Radioisotopes) License No. 19-8654-1 (G66), in accordance with your letter of June 1, 1966 (DML:IB:37).

Sincerely yours

Melvin Lerner Chief Chemist

Enclosure (duplicate)

REPLY TO: THE CHIEF CHEMIST, U.S. CUSTOMS LABORATORY, 103 S. GAY STREET, BALTIMORE, MARYLAND. 21202

_Form__42-313 --- 5-64 10 CP# 30

UNITED STATES ATOMIC ENERGY COMMISSION APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved. Budget Bureau No. 38-R027

INSTRUCTIONS.—Complete frems 1 through 16 if this is an initial application or an application for renewal of a license. Information contained in previous applications filed with the Commission with respect to Items 8 through 15 may be incorporated by reference provided references are clear and specific. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail two copies to: U.S. Atomic Energy Commission, Washington, D.C., 20545, Attention: Isotopes Branch, Division of Materials Licensing. Upon approval of this application, the applicant will receive all AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Cade of Federal Regulations, Part 30, and the Licensee is subject to Title 10, Cade of Federal Regulations, Part 20.

1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, person, atc. include ZIP Code.)

The Treasury Department
U.S. Customs Laboratory
103 S. Gay Street - Room 704
Baltimore, Md. 21202

- (b) STREET ADDRESS[ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED (II different from 1 (a). Include ZIP Code.)
- 2 O'C'H1 C'HAMPNE, WUS. Customs Lab. 103 S. Gay Street - Room 704 Baltimore, Md. 21202
- PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a ficense, please indicate and give number.)

19-8654-1 (G66)

- NDIVIDUAL USER(S). (Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items 8 and
- RADIATION PROTECTION OFFICER (Name of person designated as radiation protection afficer if other than individual user. Attach resums of his training and experience as in Items 8 and 9.)

Melvin Lerner, Chief Chemist

Melvin Lerner, Chief Chemist

6. (a) BYPRODET MATERIAL. (Elements

A. Stantium 90

(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYSICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If seeled source(s), also state name of manufacturer, model

B. Xemon 133

Sealed sources, not to exceed 3 in number.
U.S. Radium Cat. # Lab. 369 containing 24
millicuries of Sr 90.

B. Sealed source (Tracerlab) - 100 millicuries

7. DESCRIBE PURIOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for "human use," supplement A (Form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in

A. Gas chromatography unit - Electronic Instruments for Research, Inc.

B. To be used in the evaluation of a narrow band x-ray gold detector.

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11. METHO 20 12. FILM N 13. FACILIT of focill 14. RADIAT hesting	FREQUENCY, AND STANDARDS LIBERT OF NATIONAL STANDARDS LIBERT OF ST	USED IN CAUSE, VAL RESE 1833 AVE SAY PROCEDURE: 10N TO BE oboratory to titie YA No Describe the radia, fraining, and ex	ATING INSTRUME ATING INSTRUME ATION INSTRUME ATION INSTRUME SUBMITTED IS tained remote from THE	ON ADDITIONAL dispagation including control or open including control open including contro	of calibrating and process L SHEETS IN DUPL containers, shielding, fur	RACIOSC ing, or name of supp LICATE ne hoods, etc. Expl covers sealed source	tive
13. FACILITY of focial lesting icing, a	FREQUENCY, AND STANDARDS IDEATED DY NAV E SAMPLE MX-1 OES, DOSIMETERS, AND BIO AS ON E INFORMAT AND EQUIPMENT. Describe Is allached. (Circle answer) IN PROTECTION PROGRAM. Describers where applicable, name	USED IN CAUSE VALUE RESE VALUE RESE SAY PROCEDURES SAY PROCEDURES TON TO BE oboratory failities Yellow Pascribe the radia of training, and ex edisposal service edisposal service	SUBMITTED s and remain han from protection pr perience of person is employed, spec is employed, spec	ON ADDITIONAL dimp squipment; storage oram including control in to perform leak tests, at the Bheat.	of calibrating and process L SHEETS IN DUPL containers, shielding, fun measures. If application arrangements for perfo	Radioaci ing, or name of supp LICATE ne hoods, etc. Expi covers sealed sourcerming initial radiation	tive
12. FILM N 13. FACILITY of facilit 14. RADIATY lesting icing, a	FREQUENCY, AND STANDARDS IDRATED DY NAT L SAMPLE MK-1 DES, DOSIMETERS, AND BIO-AS ON E INFORMAT AND EQUIPMENT. Describe I is allached. (Circle answer) IN PROTECTION PROGRAM. Decedures where applicable, name itenance and repair of the source of the	USED IN CAUSE, THE TRANSPORT OF THE TRAN	ATING INSTRUME PARTON LA LIBERT IN SUBMITTED IN THE SUBMI	OI-500 NTS LISTED ABOVE DOTATORY OI n bodges, specify method ON ADDITIONAL disposuringment; storage in the perform leak tests, or into activity involved.	of calibrating and process L SHEETS IN DUPL containers, shielding, fun measures. If application and arrangements for perfo Otherwise, submit detailed by applicant)	RACIOACI ing, or name of supp LICATE ne hoods, esc. Expi covers sealed sourcerming initial radiation d description of method	blier.) Identify sketch Les, submit leo on survey, sen hods which will
13. FACILITY of focial 14. RADIAT lesting icing, at 15. WASTE be used	FREQUENCY, AND STANDARDS IDEATED DY NAV E SAMPLE MX-1. OES, DOSIMETERS, AND BIO-AS ON E INFORMAT AND EQUIPMENT. Describe Is allached. (Circle answer) IN PROTECTION PROGRAM. Decedures where applicable, name alternance and repair of the source EPOSAL. If a commercial washer disposing of radioactive waster	USED IN CAUSE VAL RESE VAL RES VA	SUBMITTED s and remais income it employed, specifies employed, e	ON ADDITIONAL dimp squipment, storage oprom including control in the perform leak tests, on the Black to storage of the beauty involved. Letter of the Application of the completed part 30, and that the sun knowledges the converse of the converse open open of the converse open open of the converse open open open of the converse open open open of the converse open open open open open open open ope	of calibrating and process L SHEETS IN DUPL containers, shielding, fun measures. If application and arrangements for perfor Otherwise, submit detailed by applicant) NT NAMED IN ITEM 1, CI ALL INFORMATION CONT	RACIOSC Ing, or name of supp LICATE The hoods, etc. Expinition in the support	ces, submit lead on survey, send thous which will prucation is cluding and int
13. FACILITY of focial 14. RADIAT lesting icing, at 15. WASTE be used	FREQUENCY, AND STANDARDS IDTATED DY NATE E SAMPLE MX-1. DES, DOSIMETERS, AND BIO-AS ON E INFORMAT AND EQUIPMENT. Describe Is alsoched. (Circle answer) IN PROTECTION PROGRAM. Describes where applicable, name tenance and repair of the source of the	USED IN CAUSE TO THE SECOND IN CAUSE SAY PROCEDURES	SUBMITTED s and remain from the presence of person is employed, specified the property of the	ON ADDITIONAL disparation in the perform leak tests, or in the per	of calibrating and process L SHEETS IN DUPL containers, shielding, fun measures. If application and arrangements for perform Otherwise, submit detailed I by applicant NT NAMED IN ITEM 1, CI ALL INFORMATION CONT	Radioaci ing, or name of supp ICATE ne hoods, etc. Expi covers sealed sourcerming initial radiation d description of methods. ICATE THAT THIS ALTAINED HEREIN, INC. Department Laborator Laborator	ces, submit fee on survey, servinds which will pruce the cubing and cubing an

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14. Shall be tested for leakage at no longer than six month intervals by Melvin Lerner, Chief Chemist, using MRD Scaler, source to be repaired, if necessary, by original supplier.

A "wipe" test will be made of the scaled source with filter paper and the paper will be counted with a thin window geiger tube and/or a windowless flow counter for several hours to detect any rise above background. The test will be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample.



FORM AEC-374C (4-86)

ATOMIC ENERGY COMMISSION BYP, ODUCT MATERIAL LICENSE

Page of Pages

Supplementary Sheet

License Number 04

Amendment No. 04

U. S. Department of the Treasury U. S. Quetoms Laboratory 103 S. Gay Street Baltimere, Maryland 21202

In accommence with application dated June 3, 1968, License Humber 19-08654-01 is amended as follows:

The explantion date in Item 4 is changed to July 31, 1973.

Subitoms 6.B., 7.B., 8.B. and 9.B. are amended to read:

- 6. Byproduct material (element and mass number)

 7. Chemical and/or physical form licensee may possess at any one time

 8. Maximum amount of radioactivity which licensee may possess at any one time

 8. Maximum amount of radioactivity which licensee may possess at any one time

 8. Maximum amount of radioactivity which licensee may possess at any one time

 8. Maximum amount of radioactivity which licensee may possess at any one time

 8. Maximum amount of radioactivity which licensee may possess at any one time
 - 9. Authorized use
- B. To be used in a custom made device for detection of pold.

Condition 12. is amended to read:

12. Eyproduct material shall be used by, or under the supervision of, Alvin Bober.

JUL	1	8	1968
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Date_____

For the U. S. Atomic Energy Commission Original Signed By Robert E. Brinkman

> Division of Materials Licensing Washington, D. C. 20545

by -

4

S. ATOMIC ENERGY COMMISSION BYPRODUCT MATERIAL LICENSE

Page 1 of Pages

Amendment Ro. 03

Pursuant to the Atomic Energy Act of 1954 and Title 10, Code of Federal Regulations, Chapter 1, Parts 30, 32, 33, 34, and 35, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess, transfer and import byproduct material listed below; and to use such byproduct material for the purpose(s) and at the place(s) designated below. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission now or hereafter in effect and to any conditions specified below.

Licensee

- 1. Name U. 3. Department of the
- 2. Address U. S. Controls Laboratory 103 S. Gay Staront Baltimore, Manyland 2120

In accordance with application dated June 23 1366

3. License number 1887

4. Expiration date

July 31, 1968

5. Reference No.

- 6. Byproduct material (element and mass number)
- 7. Chemical and/or physical form
- Maximum amount of radioactivity which licensee may possess at any one time

- A, Strontian 90
- A. Sealed Sentres (U. S. Ledlen

B. Jamon 133

- L. Sealed Squipes (Transclab)
- 3. 100 milliouries

- 9. Authorized was
 - A. I be used in Klastronian Insperments for Research, Inc., gas
 - b. To be used in the evaluation of a necessr band Laker gold detector.

COMPATIONS

- 10. Sympletet material may only be used at the licensee's address stated in Item 2 above.
- 11. The Alexander shall comply with the provisions of Title 10, Part 20, Gods of Rederni Asymisticus, Chaptur 1, "Stundards for Protection Against Rediction."
- 12. Bypodeset meterial shall be used by, or under the supervision of, leiven lector.

\EC-374Å

U ... ATOMIC ENERGY COMMISSION BYPRODUCT MATERIAL LICENSE

Supplementary Sheet

License Number 19-06654-0

Continued from Pase 1

Amendment: No., 63

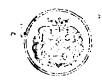
COMPITIONS

- 13. A(1) Each sealed source containing hyproduct natural, other than Mydrogen 3, with a helf-life greater than thirty days and in any form other than gas shall be tasted for leakage and/or contamination at intervals not to exceed six months. In the absence of a contificate from a transferor indicating that a test has been made within six months prior to the transfer, the sealed source shall not be put into use until tested.
 - (2) The periodic lock test suggisted by this condition does not apply to couled sources that are stored and not being used. The courses excepted from this test shall be tested for lookage prior to any use or transfer to another person unless they have been look tested within six months prior to the date of use or transfer.
 - A. The test shall be capable of detecting the presence of 0.005 signocurie of radioactive material on the test sample. The test sample shall be taken from the scaled source or from the surfaces of the device in which the scaled source is perminently sourced or stored on which one might expect contactantion to economists. Records of look test results shall be kept in units of signocuries and maintained for inspection by the Commission.
 - . If the test reveals the presence of 0.605 microsprie or see of reservible contamination, the licenses shall issuediately withdraw the scaled spares from use and shall come it to be decompained and repaired or to be disposed of in somerdames with Commission regulations. A report shall be filed within 5 days of the test with the Director, Division of Materials Licensing, U. S. Abonic Energy Consistion, Vandington, D. C. 20045, Consisting the exclusive involved, the test member, and the corrective action taken. A copy of such report shall also be sent to the Director, Region I. Rivision of Compliance, USARC, 374 Redson Street, New York, New York, 18014.
 - A. Tests for laskings and/or contamination shall be performed by the limited or by dibor persons specialized by the Constants or an Appendix State to perform such corriers.
- 14. Short as specifically provided otherwise by this license,
 the licenses chail pussess and year improvings actuated described
 is Ivens 6.7, and 8 of this license is separation with
 the terminal representations, and proceedures contained in applications
 dered Jenuary 12, 1965 and June 23/ 1966. For the U. S. Atomic Energy Commission
 Uriginal Signed By
 Robert E. Brinkman

Date ________ 1966

y Lestopes Branch

Division of Materials Licensing Washington, D. C. 20545



TREASURY DEPARTMENT BUREAU OF CUSTOMS

BALTIMORE, MD.

JIM 5 1973 REFER TO

FILE:TEC-1-07-RO:L

United States Atomic Energy Commission Washington, D. C. 20545

Attn: Isotopes Branch, Division of Materials Licensing

Gentlemen:

Enclosed please find completed Form AEC-313, in duplicate, for the renewal of License No. 19-08654-01; expiration date July 31, 1973 (Program Code 03100).

Sincerely yours,

James M. Adams, Ph.D. Regional Director, Laboratory Division

Form AEC-313 6-64 10 CFR 30 UNITED STATES ATOMIC ENERGY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved Budget Bureau No. 38-R0027

INSTRUCTIONS.—Complete Items 1 through 16 if this is an initial application or an application for renewal of a license. Information contained in previous applications filed with the Commisson with respect to Items 8 through 15 may be incorporated by reference provided references are clear and specific. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail two copies to: U.S. Atomic Energy Commission, Washington, D.C., 20545, Attention: Isotopes Branch, Division of Materials Licensing. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 18, Code of Federal Regulations, Part 30, and the Licensee is subject to Title 10, Code of Federal Regulations, Part 20.

1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital.

(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED (If different from 1 (a). Include ZIP Code.)

Treasury Department U. S. Customs Laboratory 193 S. Gay Street

Mot Applicable

Baleimore, Maryland 21202
2. DEPARTMENT TO USE BYPHODUCT MATERIAL

Laboratory Division
U.S. Customs Service, Region III

48 Gay 8t Saltinore Md 21202
4. NDIVIDEA USERIST. (Name and title of individual(s) who will use of directly supervise use of byproduct material. Give training and experience in Items 8 and

²⁾ Alvin Bober, Chief/Inorganic/ Physical Branch 3. PREYNOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.)

Renewal: No.19-08654-01

 RADIATION PROTECTION OFFICER (Name of person designated as radiation protection afficer if other than individual user. Affach resums of his training and experience as in Items 8 and 9.)

James M. Adams, Regional Director, Laboratory Division

6. (a) BYPRODUCT MATERIAL. (Elements and mass number of each.)

(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYSICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.)

Various

Exempt quantities for use as tracers or in calibration.

Sealed sources not to exceed 1 in number, such am may be used in a gas chromatograph Example: U.S. Radium, Catalog No. 369, containing 24 millicuries of Sr 90.

- 7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for "human use," supplement A (form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.)
 - 1) Gas chromatograph detector, Example: Electronic Instruments for Research, Inc. AV-18-2000.
 - 2) Analytical methodology for recovery correction

39086

ئم													Pagé Two
	TRAINING	AND EXPE	RIENCE OF E	ACH INDIVIDU	AL NA	MED IN ITEA	14 (Use supplemer	ntal sh	eets if ne	cessary)		
8. TYPE OF	TRAINING	WHERE TRAINED					DURATION TRAINING	ON THE JOB (Circle answer)			COURSE answer)		
a. Principles protection	s and practices o	V. S. Customs Laboratory					- 7 y	Yes	No	Yes	No		
	iv ily measurement : manitoring techniq	.\				-			No	Yes	No		
	emotics and calculations basic to the and measurement of radioactivity U.S. Customs Laboratory					ł	7 y	X.	Yes	No	Yes	No	
d Biologica	al effects of radiation		Customs				7 9		Yes	No	Yes	No	
9. EXPERIEN	CE WITH RADIATIO	N. (Actual	use of radioisa	topes or equivale	nt expe	rience.)			-	<u> </u>		·	
ISOTOPE	THUOMA MUMITAN	w	HERE EXPERIENC	E WAS GAINED		DURATION	OF EXP	ERIENCE			TYPE O	F USE	
235 U 33	7		s. Cust tory	cms Leb			yza		p	orte	i oz tod	g im es e uran ide	ađ
10. RADIATI	ON DETECTION INS	TRUMENTS	(Use supplem	ental sheets if ne	cessory.)							
	PE OF INSTRUMENTS in and model number		NUMBÉR AVAILABLE	RADIATION DETECTED	SENS	ITIVITY RANGE (mr/hr)	WIND	OW THICKNES (mg/cm²)	ss	(Monitor	-	SE reying, med	ssuring)
Mavy	Havy Mediac 27%			beta, gamma	٥.	01-500	Mavy BS1 and BS2			Monitoring			3
MRD	* Caler			l beta 0.01-500				34		Measuring			
Cali Test 12. FRM BAD	MOUNTER AND STATE OF THE PARTY	X 1081 IND BIO-ASS	L Rosen IB avai Ay procedure	reh Labo 12016 S USED. (For film	badges	ONY, bi	of calibr	-	essing	, or name	of supp	lier.)	
	-												
13 BACHERIC				SUBMITTED									
	S AND EQUIPMENT. is altoched. (Circle					uspment, stor <i>age</i> dB	contain	ers, shielding,	TUME	noods, etc	. Expl	anotory ski	irch
testing p	ON PROTECTION PRO rocedures where appli sinhanance and repair	cable, name,	training, and ex	ation protection propertience of person									
15. WASTE D	DISPOSAL. If a commerce disposing of radio	nercial waste active wastes	disposal service and estimates o	is employed, spec f the type and am	ify name	e of company. activity involved,	Otherwi	se, submit deta	piled (description	of meth	ods which	wi 1
		CI	RTIFICATE	This item m	ust be	completed	by a	pplicant)					
PREPARED SUPPLEM	ICANT AND ANY OF THE PROPERTY WE ENTE ATTACHED HER	TH FITLE 10, IETO, IS TRUI	CODE OF PEDER	TAL REGULATIONS	, PART :	30, AND THAT A NOWLEDGE AN	D BELIEF	Pepa Pepa Stone	ATMC	MED HERI	EIN, INC	PLICATION CLUDING A	l IS
						Chief,			g/ 1	hysi	cal	Bran	ch
WARNING representati	G.—18 U.S.C., Seion to any departme	ection 1001; nt or agency	Act of June 25 of the United 5	5, 1948; 62 Stat itates as to any m	. 749; atter w	makes it a crim ithin its jurisdict	inal offi ion.	ense to make	a wil	Ifully fals	e stater	nent or	j

Form AEC-313 (8-64): Supplemental Sheet

5. James M. Adams, Regional Director, Laboratory Division (8 Type of Training

Where Trained					. Ī	ura	tion		On the Job		
a	Oak	Ridge	National	Lab	oratory	3	yrs		Yes		
b	Oak	Ridge	National	Lab	oratory	3	yrs		yes		
C	Oak	Ridge	National	Lab	oratory	3	yrs		yes		
đ	Oak	Ridge	National	Lab	oratory	3	yrs		yes		
•	xperie sotope	nce wit	th Radiat		When	<u>:e</u>		Durat	<u>ion</u>	<u>Us</u> e_	
	c ¹⁴ Co ⁶⁰		Exem _j Exem _j		Oak Rido Rosner-F			b. 3	yrs	Tracer	
	c14		Exem	ọt	Chicago, Merck &		1	3	yrs	Tracer	

Rahway, N.J.

14. Continued

Sealed sources will be tested for leakage at 6 month intervals by Alvin Bober, Chief, Inorganic/Physical Branch. Servicing maintenance and repair when required will be referred to the original supplier.

A "wipe" test will be performed on the source using filter paper and the paper will be counted using a thin window geiger tube or window-les flow counter.

4 yrs

Tracer

EXPERT SYSTEM LICENSE EVALUATION EVALUATION REPORT FOR LICENSE 19-08654-01

Licensee: DEPARTMENT OF THE TREASURY CUSTOMS LAB Site of operation: 103 GAY STREET, BALTIMORE, MD

-- Type and form of materials licensed--

Material--

124

--Form--Sealed

Ļ.

-

SR-90 XE-133

Sealed

--For evaluation purposes, amounts of the following materials were obtained-Material--SR-90

--Form--SEALED

--Amount--.060

--Unit--CI

Initial rank for the SEALED sources is: 0.52

1. License included only sealed sources

2. There was at least one sealed source authorized on this license which was not accounted for by the disposition information.

3. Sealed sources/shielding on the license were of low to moderate hazard.

Category for sealed sources: No criteria to eliminate license-sources not haz

The final ranking for SEALED SOURCES is BELOW 1

Reviewer's comments concerning license 19-08654-01

THERE IS A NOTE IN THIS FILE DATED 7/10/73 STATING NO MATERIAL ON HAND AND THAT THERE IS NO NEED TO RENEW THE LICENSE. NOTICE WAS TO BE SENT TO CLOSE OUT. HOWEVER THE FILE CONTAINED NO DISPOSITION DATA. FROM INFORMATION ON THE APPLICATION FOR LICENSE THE LICENSEE COULD POSSESS SEALED SOURCES OF STRONTIUM-90, (ACTIVITY NOT TO EXCEED 20 MILLICURES PER SOURCE) NOT TO EXCEED 3 IN NUMBER. BASED ON THIS IT WAS ASSUMED THAT THE LICENSEE POSSESSED 3 SEALED SOURCES OF SR-90.

EXPERT SYSTEM EVALUATION WAS BASED ON THE INVENTORY RECORD IN JOB 0338, BOX 41

Docket 30-04546

Licensee: DEPARTMENT OF THE TREASURY

CUSTOMS LAB

Address: BALTIMORE, MD

Zip: 21202

State of operation: MD

Site used: 103 GAY STREET, BALTIMORE, MD

Disposition information present: NO DISPOSITION INFORMATION GIVEN

This license was listed as expired on 07/31/73

Remarks: NOTE 7/10/73: NO MATL ON HAND- NO NEED FOR RENEWAL OF LICENSE

JOB NUMBER: 0338 BOX NUMBER: 41

Date of last evaluation/revision: 01/27/93

Reviewer: BWK



7005 1820 0001 4015 3250

MIG 1 8 MAK

HARRY . STEINMETZ (3HS62)
U.S. TVIRONMENTAL PROTECTION AGENCY, REGION III
1650 ACCH STREET
PHILATLIPHIA, PA 19103-2029